



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

**June 16, 2016**

**4SESD-MTSB**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 16-0400, Rockwell International Wheel & Trim  
Superfund Remedial

**FROM:** Denise Goddard  
Quality Assurance Section, Chemist

**THRU:** Sandra Aker, Chief  
Quality Assurance Section

**TO:** Cathy Amoroso

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Quality Assurance Section. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

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**Classical/Nutrient Analyses (CNA)**

Cyanide  
Cyanide

CLP Inorganics (Soil)  
CLP Inorganics (Water)



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**Report Narrative for Work Order: C162306 Analysis: CNA**

Inorganic Data Review and Validation Report

Site Name: Rockwell International Wheel & Trim, Grenada, MS

Case No.: 46171, Project No.: 16-0400, Work Order Nos.: C162306, C162307, C162308

ELEMENT Sample IDs.: C162306-04 – 28, 30 – 35, 37, 39 – 41; C162307-01, -2; C162308, 01, 02

Sampling Date(s): 5/2 - 5/16

Validated Time of Sample Receipt: 5/6/16

Laboratory Performing Inorganic Analyses: Chemtech Consulting Group, Mountainside, NJ

Date Received from Lab: 5/26/16

Analyses conducted: Cyanide

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of twenty-four soil samples and fifteen water samples for cyanide analyses according to the contract Statement of Work (SOW) ISM02.3 and EPA guidelines. This package presents acceptable contractual and technical performance with qualifications. Additional details are provided below.

Examination of laboratory blank samples revealed apparent low-level contamination with cyanide. Reporting limits were adjusted as high as ten times the blank levels to discount possible false positives due to contamination in laboratory blanks.

The following samples were not analyzed because they were believed to have been acidified in the field: MD9X49, MD9X59, MD9X60, MD9X61, MD9X62, and MD9X66 (C162306-01 – 03, 29, 36, and 38). This caused the potential loss of any cyanide that may have been present therefore, the samples were canceled for analysis.

**Cyanide Analysis**

**PE Sample Results**

The performance evaluation sample recoveries for cyanide in soil and water were scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied to cyanide results in soil or water on the basis of these criteria.

**Other QA/QC Results**

There were no other QA/QC problems observed for cyanide analysis. Therefore, no data qualifiers were applied to the sample results for cyanide based on these criteria.

A Stage 4 validation consisting of manual review was performed on the inorganic samples submitted for this case.

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cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 16-0400, Rockwell International Wheel & Trim**

**Contract Lab Case: 46171**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
GM-EH-01-SB1	C162306-04	9X30		Subsurface Soil	5/3/16 12:57
GM-EH-01-SB2	C162306-05	9X31		Subsurface Soil	5/3/16 13:00
GM-EH-02-SB1	C162306-06	9X32		Subsurface Soil	5/3/16 09:10
GM-EH-02-SB2	C162306-07	9X33		Subsurface Soil	5/3/16 09:15
GM-EH-03-SF	C162306-08	9X34		Surface Soil	5/4/16 14:45
GM-EH-03-SF-DUP	C162306-09	9X35		Surface Soil	5/4/16 15:05
GM-EH-04-SF	C162306-10	9X36		Surface Soil	5/3/16 14:50
GM-EH-05-GW	C162306-11	9X69		Groundwater	5/3/16 16:25
GM-EH-05-SB1	C162306-12	9X37		Subsurface Soil	5/3/16 14:45
GM-EH-05-SB2	C162306-13	9X38		Subsurface Soil	5/3/16 14:47
GM-EH-06-GW	C162306-14	9X50		Groundwater	5/4/16 16:45
GM-EH-06-SB	C162306-15	9X39		Subsurface Soil	5/4/16 15:40
GM-EH-07-GW	C162306-16	9X51		Groundwater	5/4/16 14:50
GM-EH-07-SB	C162306-17	9X40		Subsurface Soil	5/4/16 13:55
GM-EH-08-GW	C162306-18	9X52		Groundwater	5/4/16 10:25
GM-EH-08-SB	C162306-19	9X41		Subsurface Soil	5/4/16 11:50
GM-EH-09-GW	C162306-20	9X53		Groundwater	5/3/16 18:40
GM-EH-09-SB	C162306-21	9X42		Subsurface Soil	5/3/16 17:30
GM-EH-10-GW	C162306-22	9X54		Groundwater	5/4/16 10:25
GM-EH-10-SB	C162306-23	9X43		Subsurface Soil	5/4/16 09:20
GM-EH-11-GW	C162306-24	9X55		Groundwater	5/5/16 15:35
GM-EH-11-GW-DUP	C162306-25	9X70		Groundwater	5/5/16 15:40
GM-EH-12-GW1	C162306-26	9X56		Groundwater	5/5/16 12:00
GM-EH-12-GW2	C162306-27	9X57		Groundwater	5/5/16 13:00
GM-EH-13-GW1	C162306-28	9X58		Groundwater	5/5/16 13:40
GM-EH-14-SD	C162306-30	9X44		Sediment	5/2/16 17:25
GM-EH-14-SD-DUP	C162306-31	9X63		Sediment	5/2/16 17:27
GM-EH-14-SW	C162306-32	9X67		Surface Water	5/2/16 17:20
GM-EH-14-SW-DUP	C162306-33	9X68		Surface Water	5/2/16 17:22
GM-EH-15-SD	C162306-34	9X45		Sediment	5/2/16 17:40
GM-EH-16-SD	C162306-35	9X64		Sediment	5/2/16 16:35
GM-EH-17-SD	C162306-37	9X65		Sediment	5/2/16 16:50
GM-GF-01A	C162306-39	9X47		Subsurface Soil	5/2/16 18:40
GM-GF-01B	C162306-40	9X48		Subsurface Soil	5/2/16 18:50



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GM-WT-07

C162306-41

9X46

Surface Soil

5/2/16 19:15



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### DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-01-SB1

Lab ID: C162306-04

MD No: 9X30 CHM

Station ID: GMEH01

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 12:57

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	95		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.53	U	mg/kg dry	0.53	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-01-SB2

Lab ID: C162306-05

MD No: 9X31 CHM

Station ID: GMEH01

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 13:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	90		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.56	U	mg/kg dry	0.56	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-02-SB1

Lab ID: C162306-06

MD No: 9X32 CHM

Station ID: GMEH02

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 9:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.60	U	mg/kg dry	0.60	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-02-SB2

Lab ID: C162306-07

MD No: 9X33 CHM

Station ID: GMEH02

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 9:15

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	83		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.56	U	mg/kg dry	0.56	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-03-SF

Lab ID: C162306-08

MD No: 9X34 CHM

Station ID: GMEH03

Matrix: Surface Soil

D No:

Date Collected: 5/4/16 14:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	79		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.59	U	mg/kg dry	0.59	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-03-SF-DUP

Lab ID: C162306-09

MD No: 9X35 CHM

Station ID: GMEH03

Matrix: Surface Soil

D No:

Date Collected: 5/4/16 15:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.58	U	mg/kg dry	0.58	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-04-SF

Lab ID: C162306-10

MD No: 9X36 CHM

Station ID: GMEH04

Matrix: Surface Soil

D No:

Date Collected: 5/3/16 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.65	U	mg/kg dry	0.65	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-05-GW

Lab ID: C162306-11

MD No: 9X69 CHM

Station ID: GMEH05

Matrix: Groundwater

D No:

Date Collected: 5/3/16 16:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-05-SB1

Lab ID: C162306-12

MD No: 9X37 CHM

Station ID: GMEH05

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 14:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	84		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.59	U	mg/kg dry	0.59	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-05-SB2

Lab ID: C162306-13

MD No: 9X38 CHM

Station ID: GMEH05

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 14:47

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.58	U	mg/kg dry	0.58	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-06-GW

Lab ID: C162306-14

MD No: 9X50 CHM

Station ID: GMEH06

Matrix: Groundwater

D No:

Date Collected: 5/4/16 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-06-SB

Lab ID: C162306-15

MD No: 9X39 CHM

Station ID: GMEH06

Matrix: Subsurface Soil

D No:

Date Collected: 5/4/16 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	82		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.60	U	mg/kg dry	0.60	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-07-GW

Lab ID: C162306-16

MD No: 9X51 CHM

Station ID: GMEH07

Matrix: Groundwater

D No:

Date Collected: 5/4/16 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-07-SB

Lab ID: C162306-17

MD No: 9X40 CHM

Station ID: GMEH07

Matrix: Subsurface Soil

D No:

Date Collected: 5/4/16 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	84		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.59	U	mg/kg dry	0.59	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-08-GW

Lab ID: C162306-18

MD No: 9X52 CHM

Station ID: GMEH08

Matrix: Groundwater

D No:

Date Collected: 5/4/16 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-08-SB

Lab ID: C162306-19

MD No: 9X41 CHM

Station ID: GMEH08

Matrix: Subsurface Soil

D No:

Date Collected: 5/4/16 11:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	86		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.54	U	mg/kg dry	0.54	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

**Project: 16-0400, Rockwell International Wheel & Trim**

**Contract Lab Case: 46171**

**Sample ID: GM-EH-09-GW**

**Lab ID: C162306-20**

**MD No: 9X53 CHM**

**Station ID: GMEH09**

**Matrix: Groundwater**

**D No:**

**Date Collected: 5/3/16 18:40**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-09-SB

Lab ID: C162306-21

MD No: 9X42 CHM

Station ID: GMEH09

Matrix: Subsurface Soil

D No:

Date Collected: 5/3/16 17:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	89		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.56	U	mg/kg dry	0.56	5/10/16	5/12/16	CLP ISM02.3 AS



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Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-10-GW

Lab ID: C162306-22

MD No: 9X54 CHM

Station ID: GMEH10

Matrix: Groundwater

D No:

Date Collected: 5/4/16 10:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-10-SB

Lab ID: C162306-23

MD No: 9X43 CHM

Station ID: GMEH10

Matrix: Subsurface Soil

D No:

Date Collected: 5/4/16 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	85		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.56	U	mg/kg dry	0.56	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-11-GW

Lab ID: C162306-24

MD No: 9X55 CHM

Station ID: GMEH11

Matrix: Groundwater

D No:

Date Collected: 5/5/16 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-11-GW-DUP

Lab ID: C162306-25

MD No: 9X70 CHM

Station ID: GMEH11

Matrix: Groundwater

D No:

Date Collected: 5/5/16 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-12-GW1

Lab ID: C162306-26

MD No: 9X56 CHM

Station ID: GMEH12

Matrix: Groundwater

D No:

Date Collected: 5/5/16 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-12-GW2

Lab ID: C162306-27

MD No: 9X57 CHM

Station ID: GMEH12

Matrix: Groundwater

D No:

Date Collected: 5/5/16 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-13-GW1

Lab ID: C162306-28

MD No: 9X58 CHM

Station ID: GMEH13

Matrix: Groundwater

D No:

Date Collected: 5/5/16 13:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-14-SD

Lab ID: C162306-30

MD No: 9X44 CHM

Station ID: GMEH14

Matrix: Sediment

D No:

Date Collected: 5/2/16 17:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	60		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.83	U	mg/kg dry	0.83	5/10/16	5/12/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-14-SD-DUP

Lab ID: C162306-31

MD No: 9X63 CHM

Station ID: GMEH14

Matrix: Sediment

D No:

Date Collected: 5/2/16 17:27

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	58		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.82	U	mg/kg dry	0.82	5/10/16	5/12/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-14-SW

Lab ID: C162306-32

MD No: 9X67 CHM

Station ID: GMEH14

Matrix: Surface Water

D No:

Date Collected: 5/2/16 17:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-14-SW-DUP

Lab ID: C162306-33

MD No: 9X68 CHM

Station ID: GMEH14

Matrix: Surface Water

D No:

Date Collected: 5/2/16 17:22

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
57-12-5	Cyanide	10	U	ug/L	10	5/13/16	5/13/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-15-SD

Lab ID: C162306-34

MD No: 9X45 CHM

Station ID: GMEH15

Matrix: Sediment

D No:

Date Collected: 5/2/16 17:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	58		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.82	U	mg/kg dry	0.82	5/10/16	5/12/16	CLP ISM02.3 AS



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## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-16-SD

Lab ID: C162306-35

MD No: 9X64 CHM

Station ID: GMEH16

Matrix: Sediment

D No:

Date Collected: 5/2/16 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	55		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.86	U	mg/kg dry	0.86	5/10/16	5/12/16	CLP ISM02.3 AS



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D.A.R.T. Id: 16-0384

Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-EH-17-SD

Lab ID: C162306-37

MD No: 9X65 CHM

Station ID: GMEH17

Matrix: Sediment

D No:

Date Collected: 5/2/16 16:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	52		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.92	U	mg/kg dry	0.92	5/10/16	5/12/16	CLP ISM02.3 AS



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Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-GF-01A

Lab ID: C162306-39

MD No: 9X47 CHM

Station ID: GMGF01

Matrix: Subsurface Soil

D No:

Date Collected: 5/2/16 18:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	81		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.60	U	mg/kg dry	0.60	5/10/16	5/12/16	CLP ISM02.3 AS



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Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-GF-01B

Lab ID: C162306-40

MD No: 9X48 CHM

Station ID: GMGF01

Matrix: Subsurface Soil

D No:

Date Collected: 5/2/16 18:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	79		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.62	U	mg/kg dry	0.62	5/10/16	5/12/16	CLP ISM02.3 AS



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Project: 16-0400, Rockwell International Wheel & Trim - Reported by Denise Goddard

## Classical/Nutrient Analyses

Project: 16-0400, Rockwell International Wheel & Trim

Contract Lab Case: 46171

Sample ID: GM-WT-07

Lab ID: C162306-41

MD No: 9X46 CHM

Station ID: GMWT07

Matrix: Surface Soil

D No:

Date Collected: 5/2/16 19:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	74		%		5/10/16	5/12/16	CLP Inorganics
57-12-5	Cyanide	0.65	U	mg/kg dry	0.65	5/10/16	5/12/16	CLP ISM02.3 AS